

## **Material Safety Data Sheet**

Innovation and Experience at Work

## **UltraSil B4012**

1.	Substance, Preparation, and Company Description		
	Material Uses	Lubricant, Industrial applications	
		Engineered Custom Lubricants (ECL)	
	Manufacturer	3851 Exchange Ave.	
	Wandidetaici	Aurora, IL 60504	
		630-449-5000	
	Product Code	UltraSil B4012	
	Validation Date	February 3, 2015	
	In case of emergency contact	1-630-449-5000	
2.	Hazards Identification		
		mergency Overview	
	Physical State	Liquid, lubricant	
	Color	Clear	
	Odor	Odorless	
	Hazard Statements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.	
		While this material is not considered hazardous by the OSHA	
	OSHA/HCS Status co	Hazard Communication Standard (29 CFR 1910.1200), this MSDS	
		contains valuable information critical to the safe handling and	
		proper use of the product. This MSDS should be retained and	
		available for employees and other users of the product.	
	Routes of Entry	Dermal contact. Eye contact. Ingestion	
		tial acute health effects	
	Inhalation	No known significant effects or critical hazards.	
	Ingestion	No known significant effects or critical hazards.	
	Skin	No known significant effects or critical hazards.	
	Eyes	No known significant effects or critical hazards.	
	Potential chronic health effects		
	Chronic effects	No known significant effects or critical hazards.	
	Carcinogenicity	No known significant effects or critical hazards.	
	Mutagenicity	No known significant effects or critical hazards.	
	Teratogenicity	No known significant effects or critical hazards.	
	Fertility effects	No known significant effects or critical hazards.	
	Developmental effects	No known significant effects or critical hazards.	
	Over-e	xposure signs/symptoms	
	Inhalation	No specific data	
	Ingestion	No specific data	

	Skin	I	lo specific data		
	Eyes		lo specific data		
	Medical conditions aggravated by over-	N	lone known		
	exposure				
3.	Composition/Component Data				
	Name Name		CAS Number	EINECS Number	%
	No Haz	ardo	ous or Reportable Ingredien	ts	
4.	First Aid Measures				
	Fire Contact		Check for and remove any		
	Eye Contact		vith plenty of water for at I pper and lower eyelids. Ge		
			n case of contact, immedia		
	Skin Contact		east 15 minutes while rem		
	Skiii Contact		Vash clothing before reus	se. Get medical atter	ntion if symptoms
			CCUr.	each air lf mat breathi	na if braathing is
			Move exposed person to fregular or if respiratory ar		
	Inhalation		r oxygen by trained person		
			ollar, tie, belt, or waistba		
			ccur.		
	In mostion		Vash out mouth with water		
	Ingestion		o do so my medical person inconscious person. Get me		
	5		lo action shall be taken		
	Protection for first-aiders	s	uitable training.		
			lo specific treatment. T		
	Note to Physician		reatment specialist imme	diately if large quar	itities have been
			ngested or inhaled.		
5.	Firefighting Measures				
<i>J.</i>	Suitable Extinguishing Media	Г	Ory Chemical, CO <sub>2.</sub> Foam. o	or Water Fog	
	Curiani Extra guierini g inicara		Promptly isolate the scene I		ns from the vicinity
	Special Exposure Hazards		f the incident if there is a		
			ny personal risk or without		<del> </del>
	Hazardous thermal decomposition		Burning may produce		
	products		ormaldehyde, as well as sm ire-fighters should wear p		
	Special protective equipment for		reathing apparatus (SCB		
	firefighters		ositive pressure mode.	, г г.	
6.	Accidental Release Measures				
			lo action shall be taken		
	Devend Processions		suitable training. Evacuate surrounding areas. Keep unnecessary		
	Personal Precautions		and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protection		
			quipment (see Section 8).	at on appropriate pe	Production
		A	void dispersal of spilled m	aterial and runoff and	contact with soil.
	Environmental Precautions	waterways, drains, and sewers. Inform the relevant authorities if the			
	Livironinental Flecautions		roduct has caused enviro	onmental pollution (se	wers, waterways,
		S	oil, or air).		

	Methods for Clean up	Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.  Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: See section 1 for emergency contact information and section 13 for waste disposal.					
7.	Handling and Stor	rage					
	Handling t		Eating, d this mate wash ha Remove	Put on appropriate personal protection equipment (see section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.			
	Storage		Store in container ventilated and food ready for resealed unlabeled	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.			
8.	Exposure Limits a	and Personal Prote	ctive Equ	uipment			
		000		States	mito		
	Ingredient		upational E	pational Exposure Limits  Exposure Limits			
			Canada				
	Ingredient	Occı List Name	upational Exposure Limits TWA (8 Hours)   STEL (15 mins)   Ceiling			Ceiling	
	iligiedielit	List Name	O) AVVI	Tiours	STEE (13 IIIIIs)	Cennig	
				Mexico			
		upational Exposure Limits					
	Ingredient		Exposure Limits			nits	
	L						
	Recommended Monito	oring Procedures	workplace determine measures equipmen	e, atmosphe e the effec s and/or t nt.	ere, or biological monitor etiveness of the venti the necessity to use	posure limits, personal, oring may be required to ilation or other control respiratory protective	
	Engineering Measures	S	No specific ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.				

	Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking or using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.			
	Personal Protection				
	Respiratory	Use properly fitted, air-purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.			
	Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.			
	Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposures to liquid splashes, mists, or dusts.			
	Skin	Personal protection equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
	Environmental Exposure Controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements or environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.			
9.	Physical and Chemical Properties				
9.	Physical State	Liquid, lubricant			
	Flash Point	Not Available			
	Auto-ignition Temperature	Not Available			
	Flammable Limits	Not Available			
	Color	Clear			
	Odor	Odorless			
	Hq	Not Available			
	Boiling/condensation Point	Not Available			
	Melting/freezing Point	Not Available			
	Density	1.0 g/cm <sup>3</sup>			
	Vapor Pressure	Not Available			
	Vapor Density	Not Available			
	Volatility	Not Available			
	<b>Evaporation Data</b>	Not Available			
	Viscosity	Not Available			
	Dispensability Properties	Not Available			
	Solubility	Insoluble in the following materials: hot and cold water			
	Physical/chemical Properties Comments	Not Available			
10.	Stability and reactivity				
10.	Chemical Stability	The product is stable			
	Conditions to avoid	No specific data			
	Incompatible Materials	No specific data  No specific data			
		Under normal conditions of storage and use, hazardous			
	Hazardous Decomposition Products	decomposition product should not be produced.  Under normal conditions of storage and use, hazardous reactions			
	Possibility of Hazardous Reactions	will not occur.			

11.	Toxicological Data						
	Acute Toxicity: None known United States						
	Product/Ingredient Name	Result	Species	Dose	Exposure		
	_						
		Ca	anada				
	Product/Ingredient Name	Result	Species	Dose	Exposure		
		Mexico					
	Product/Ingredient Name	Result	Species	Dose	Exposure		
		Danast	ad ar prolonged over	ocure to enroy or	miet meu preduee		
	Chronic Toxicity		ed or prolonged exp ory tract irritation.	osule to spray of	mist may produce		
		Skin: N	o known significant e	ffects or critical haza	ards.		
	Irritation/Corrosion	Eyes: N	lo known significant e	ffects or critical haza	ards.		
	irritation/corrosion	Booming	otanu Donastad ar ni	rolonged evineeure to	annou or miet meu		
			atory: Repeated or pre- e respiratory tract irrita		spray or mist may		
		Skin:	No specific informa	tion is available re			
	Sensitizer	sensitiz	ing properties of this	product. Sensitization	on not expected for		
			atory: Sensitization notice is no data on the				
	Carcinogenicity	suspected for humans.		<b>5</b> ,			
	Mutagenicity	There is no data on the preparation itself. Mutagenicity no suspected for humans.  There is no data on the preparation itself. Teratogenicity no data on the preparation itself.			Mutagenicity not		
	Teratogenicity				Teratogenicity not		
			suspected for humans.  There is no data on the preparation itself. Not considered to be				
	Reproductive Toxicity	dangerous to humans.					
12.	Ecological Data						
	Ecotoxicity	Not rea	dily biodegradable				
		United States					
	Aquatic Ecotoxicity	There is	s no data available on	the preparation itse	If		
			This product has not been tested for biodegradation. Not reach biodegradable. This product is not expected to bioacculumate				
	Persistence/Degradability		food chains in the en		to bloacculumate		
		Ca	ınada				
	Aquatic Ecotoxicity		There is no data available on the preparation itse		If		
		This pr	oduct has not been	tested for biodegra	dation. Not readily		
	Persistence/Degradability		adable. This product food chains in the en		to bioacculumate		
			exico				
	Aquatic Ecotoxicity		s no data available on	the preparation itse	If		
		This pro	oduct has not been	tested for biodegra	dation. Not readily		
	Persistence/Degradability		adable. This product food chains in the en		to bioacculumate		
		unough	1000 CHAIRS III LITE EI	vii Oi II I GIII.			

Disposal Considerations			
Waste Disposal	The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions, and any by-products should at all times comply with the requirement of environmental protection and waste disposal legislation and any regional or local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and it's container must be disposed of in a safe way. Empty containers or liners may contain some product residues. Avoid dispersal of spilled material and run-off and contact with soil, waterways, drains, and sewers.		
Disposal should be in accordance with applicable regional, national, and local laws and regulations			
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE LIMITS AND PERSONAL PROTECTIVE EQUIPMENT for additional handling information and protection of employees.			
Transportation Information			
	Disposal should be in accordance with Refer to Section 7: HANDLING AND STOPPROTECTIVE EQUIPMENT for addit		

## Regulatory UN **Proper Shipping Name** Classes Packing Label Additional Information Number Group Information **DOT Classification** Not Regulated **TDG Classification** Not Regulated **Mexico Classification** Not Regulated ADR/RID Class Not Regulated IMDG Class Not Regulated **IATA-DGR Class** Not

Regulatory Information	
United States	
HSC Classification	Not Regulated
TSCA 8(a) IUR Exempt/Partial Exemption	Not Determined
United States Inventory (TSCA 8b)	All components are listed or exempt
Clean Air Act Section 112(b) – Hazardous Air Pollutants (HAP'S)	Not listed
	HSC Classification TSCA 8(a) IUR Exempt/Partial Exemption United States Inventory (TSCA 8b) Clean Air Act Section 112(b) – Hazardous

## SARA 313: No listed substances

Regulated

Product Name	CAS Number	Concentration %

		Canada		
	WHMIS (Canada)	Not controlled under WHMIS (Canada)		
	Canadian NPRI	None of the components are listed		
	CEPA Toxic Substances	None of the components are listed		
	Canada Inventory	All components are listed or exempted		
		Mexico		
	Classification	Health: 1 Flammability: 0 Reactivity: 0		
10	Other Information			
16.	Other Information	NOT EVEROTED TO PROPILEE CICALIFICANT ADVERGE		
	Labeling Requirements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED		
	Hazardous Material Information System (USA)	HEALTH  FLAMMABILITY  REACTIVITY  PERSONAL PROTECTION  1  HMIS Ratings are based on a 0-4 scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.		
	The customer is responsible for determining the PPE code for this material.			
	Date of Issue	February 3, 2015		
	Version	2		
	Changes from Previous Version	Yes		
	Prepared by:	ECL Research and Development Department		

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